

9	112	160	208
AAATCCTCCA CTCATACACT CCACTTCTCT CTCTCTCT	GTAGCAAACT TAAAAGAAA ATG GAG GAA ATG GGA AGC ATT TTA GAG TTT CTT	GAT AAC AAA GCC ATT TTG GTC ACT GGT GCT ACT GGC TCC TTA GCA AAA	ATT TTT GTG GAG AAG GTA CTG AGG AGT CAA CCG AAT GTG AAG AAA CTC
	Met Glu Glu Met Gly Ser Ile Leu Glu Phe Leu	Asp Asn Lys Ala Ile Leu Val Thr Gly Ala Thr Gly Ser Leu Ala Lys	Ile Phe Val Glu Lys Val Léu Arg Ser Gln Pro Asn Val Lys Lys Leu
	1	15	30

304 AAT Asn 75 CTG AAA CAA A Leu Lys Gln A GTT (Val AAA (Lys 70 TTC TTG AAA GAG 1 Lys Glu I GGA G1y 65 TTT Phe GTT Val CAA AAT GAG G Gln Asn Glu V 60

256

GCT GCT CTA CGC TTG Ala Ala Leu Arg Leu 55

GAG ACA (

ACC GAT GAC G Thr Asp Asp G 50

GCA Ala

CTT TTG AGA G

CTT Leu 45

 \mathtt{TAT}

352	400	448	496	544	592
TTA GGT GCA AAT TTC TAT TCC TTT GTA TCA GAA AAA GTG ACT GTA GTA Leu Gly Ala Asn Phe Tyr Ser Phe Val Ser Glu Lys Val Thr Val Val 85	CCC GGT GAT ATT ACT GGT GAA GAC TTG TGT CTC AAA GAC GTC AAT TTG Pro Gly Asp Ile Thr Gly Glu Asp Leu Cys Leu Lys Asp Val Asn Leu 100	AAG GAA GAA ATG TGG AGG GAA ATC GAT GTT GTT GTC AAT CTA GCT GCT Lys Glu Glu Met Trp Arg Glu Ile Asp Val Val Val Asn Leu Ala 110	ACA ATC AAC TTC ATT GAA AGG TAC GAC GTG TCT CTG CTT ATC AAC ACA Thr Ile Asn Phe Ile Glu Arg Tyr Asp Val Ser Leu Leu Ile Asn Thr 135	TAT GGA GCC AAG TAT GTT TTG GAC TTC GCG AAG AAG TGC AAC AAA TTA Tyr Gly Ala Lys Tyr Val Leu Asp Phe Ala Lys Lys Cys Asn Lys Leu 140	AAG ATA TTT GTT CAT GTA TCT ACT GCT TAT GTA TCT GGA GAG AAA AAT Lys Ile Phe Val His Val Ser Thr Ala Tyr Val Ser Gly Glu Lys Asn 160
		• • •	• -		• • •

640	889	736	784	832	880
GAG AAG CCT TAT TAT ATG GGC GAG TCA CTT AAT GGA Glu Lys Pro Tyr Tyr Met Gly Glu Ser Leu Asn Gly 180	GAC ATT AAT GTA GAG AAG AAA CTT GTG GAG GCA AAA Asp Ile Asn Val Glu Lys Lys Leu Val Glu Ala Lys 195	CAA GCA GCG GCA ACG GAA AAG TCC ATT AAA TCG Gln Ala Ala Gly Ala Thr Glu Lys Ser Ile Lys Ser 210	ATG GGC ATC GAG AGG GCA AGA CAC TGG GGA TGG CCA Met Gly Ile Glu Arg Ala Arg His Trp Gly Trp Pro 225	TTC ACC AAG GCA TTA GGG GAG ATG CTT TTG ATG CAA Phe Thr Lys Ala Leu Gly Glu Met Leu Leu Met Gln 240	ATT CCG CTT ACT ATT ATT CGT CCC ACC ATC ATC ACC Ile Pro Leu Thr Ile Ile Arg Pro Thr Ile Ile Thr 260
CTG Leu 175	CTG	CTT	GAC	GTA Val	GAC ASP 255
ATA C Ile I	GGT C Gly I 190	GAA C Glu I	AAG G Lys A	TAT G Tyr v	GGG G Gly A
TTA	TTA (Len	AAT Asn (205	ATG Met	GTG '	AAA (Lys (
GGG Gly	AGA Arg	ATC Ile	ACA Thr 220	AAT Asn	TAC

FIG. 1C

928	976	1024	1072	1120	1168
GTC AGG ACC Val Arg Thr	AGG TGT ATG Arg Cys Met	GAT ATG GTC Asp Met Val 315	CAA AGA TAC Gln Arg Tyr 330	AAT CCA ATG Asn Pro Met 345	ACC AAG AAT Thr Lys Asn
GAA GGT Glu Gly 280	AGA TTG Arg Leu 295	CCG GCA Pro Ala	GCA AAC Ala Asn	GCG GCG Ala Ala	TAC TTC Tyr Phe 360
GGT TGG GTT Gly Trp Val	GGT AAA GGG Gly Lys Gly	GAC CTG ATA Asp Leu Ile 310	GTG GCG CAC Val Ala His 325	GGA TCT TCA Gly Ser Ser 340	GCA CAC CGT Ala His Arg
TTT CCT Phe Pro 275	TAT TAT Tyr Tyr 290	ATA ATT Ile Ile	GCC ATG Ala Met	CAT GTG His Val	GAG ATG Glu Met 355
AAA GAG CCC Lys Glu Pro	GTA CCT GTA Val Pro Val	CCC AGC ACA Pro Ser Thr 305	ACG ATA GTA Thr Ile Val 320	GTG ACA TAC Val Thr Tyr 335	GCA TTA CCA Ala Leu Pro
AGC ACT TTT A Ser Thr Phe I 270	ATC GAT AAT C Ile Asp Asn V 285	CTT TGC GGA C Leu Cys Gly F 300	GTG AAT GCA P Val Asn Ala T	GTA GAG CCG G Val Glu Pro V	AAA CTG AGT G Lys Leu Ser A

FIG. 11

1216	1264	1312	1360	1408	1456
TGG ATC AAC CCG GAT CGC AAC CCA GTA CAT GTG GGT CGG GCT ATG Trp Ile Asn Pro Asp Arg Asn Pro Val His Val Gly Arg Ala Met 375	TTC TCC TCC TTC TCC ACC TTC CAC CTT TAT CTC ACC CTT AAT TTC 1. Phe Ser Ser Phe Ser Thr Phe His Leu Tyr Leu Thr Leu Asn Phe 395	CTT CCT TTG AAG GTA CTG GAG ATA GCA AAT ACA ATA TTC TGC CAA Leu Pro Leu Lys Val Leu Glu Ile Ala Asn Thr Ile Phe Cys Gln 400	TTC AAG GGT AAG TAC ATG GAT CTT AAA AGG AAG ACG AGG TTG TTG Phe Lys Gly Lys Tyr Met Asp Leu Lys Arg Lys Thr Arg Leu Leu 415	CGT TTA GTA GAC ATT TAT AAA CCC TAC CTC TTC TTC CAA GGC ATC 1 Arg Leu Val Asp Ile Tyr Lys Pro Tyr Leu Phe Phe Gln Gly Ile 430	GAT GAC ATG AAC ACT GAG AAG TTG CGG ATT GCT GCA AAA GAA AGC 1 Asp Asp Met Asn Thr Glu Lys Leu Arg Ile Ala Ala Lys Glu Ser 445
CCA	GTC Val 380	CTC	TGG	TTG	TTT

FIG. 1E

1504	1552	1608	1668	1728	1786
AAC TGG ASn Trp 475	GTC GTA GAG CAC GTT Val Val Glu His Val	CACCGAAAGN	AGTTAGGTTT 1668	CTTTTTTAAT 1728	GTGAAAAAA AAAAAAAA GAGCTCCTGC AGAAGCTT
A ATT	ra gac al glu		AATGC	LLLLLL	CTGC
AGG GCA A	GTC G Val Va	CTT AAC TAAAAGTTAC GGTACGAAAA TGAGAAGATT GGAATGCATG Leu Asn	AGACGTGGTT AAAGTCATGG TCAAAAAAGA AATAAAATGC	TGATCTTTTT	GAGCT
GAT CCC AASD Pro A	GGN	T GGA	AAGA	TGTATTGTTA CTTGTACTTT	AAAA
r GAT e Asp	C CCA (e Pro 485	AAGAT	CAAAA	TTGTA	AAAAA
c TTT r Phe	CAT TTC (His Phe	TGAG) <u>T</u>	TA C	AA AZ
r TAC e Tyr	r Hi	AAA	TCAT	TTGT	AAAA
TTT Phe	TTG AAA ACT Leu Lys Thr 480	ACGA	4AAG	IGTA	FTGA
ATG Met 465	AA/ Lys	GGT7	TT 7	CT 1	
GAT	TTG Leu 480	PAC	3.TGG	ATTC	rgty
GCT Ala	TTC	AAGT	AGACO	TTTGATTCCT	TCTTTGTTTT
GAA Glu	TAC	TAA	•		
ATA GTT (Ile Val (460	GAA GAT TAC Glu Asp Tyr	AAC Asn	NCAACATAAA	GTGTTGCAGT	GAAATTTCTC
ATA Ile 460	GAA Glu	CTT	NCA	ĞŢĞ.	GAAJ

56	104	152	200	248	296
GGAACTCCAT CCCTTCCTC TCTCTACA ATG AAG GCC AAA ACA ATC Met Lys Ala Lys Thr Ile 5	ACA AAC CCG GAG ATC CAA GTC TCC ACG ACC ATG ACC ACC ACG ACC ACG Thr Asn Pro Glu Ile Gln Val Ser Thr Thr Met Thr Thr Thr Thr Thr 10 10	ACT ATG ACC GCC ACT CTC CCC AAC TTC AAG TCC TCC ATC AAC TTA CAC Thr Met Thr Ala Thr Leu Pro Asn Phe Lys Ser Ser Ile Asn Leu His 25	CAC GTC AAG CTC GGC TAC CAC TTA ATC TCC AAT GCC CTC TTC CTC His Val Lys Leu Gly Tyr His Tyr Leu Ile Ser Asn Ala Leu Phe Leu 40 50	GTA TTC ATC CCC CTT TTG GGC CTC GCT TCG GCC CAT CTC TCC TTC Val Phe Ile Pro Leu Gly Leu Ala Ser Ala His Leu Ser Ser Phe 55 65 70	TCG GCC CAT GAC TTG TCC CTG CTC TTC GAC CTC CTT CGC CGC AAC CTC Ser Ala His Asp Leu Ser Leu Leu Phe Asp Leu Leu Arg Arg Asn Leu 75

IG. 2A

344	392	440	488	536	584
GTC GTT TGT TCT TTC CTC TTC GTT TTA TTA GCA ACC CTA Val Val Cys Ser Phe Leu Phe Val Leu Leu Ala Thr Leu 90	TTG ACC CGG CCC AGG AAT GTC TAC TTG GTG GAC TTT GGA TGC 392 Leu Thr Arg Pro Arg Asn Val Tyr Leu Val Asp Phe Gly Cys 105	CCT CAA CCG AAC CTG ATG ACA TCC CAC GAG ATG TTC ATG GAC Pro Gln Pro Asn Leu Met Thr Ser His Glu Met Phe Met Asp 125	TCC CGG GCC GGG TCG TTT TCT AAG GAG AAT ATT GAG TTT CAG 488 Ser Arg Ala Gly Ser Phe Ser Lys Glu Asn Ile Glu Phe Gln 140	ATC TTG GAG AGG GCC GGT ATG GGT CGG GAA ACC TAT GTC CCC 536 Ile Leu Glu Arg Ala Gly Met Gly Arg Glu Thr Tyr Val Pro 160	GTC ACT AAG GTG CCC GCC GAG CCG AGC ATA GCA GCC AGG 584 Val Thr Lys Val Pro Ala Glu Pro Ser Ile Ala Ala Arg 170
CTC CCT GTT Leu Pro Val	CAT TTC 1 His Phe I	TAT AAG (Tyr Lys 1	CGG ACC 7 Arg Thr 9 135	AGG AAG A Arg Lys	GAA TCC (Glu Ser ¹

632	089	728	776	824	872
GAG Glu	TGC Cys	CAT His 230	GGT G1y	CAG Gln	ATG Met
TTG	ANC	AAC Asn	ATG Met 245	CTA	AAC Asn
GTG Val	GTG Val	GTT Val	GGC G1Y	CTC Leu 260	GAA Glu
GAG Glu 195	GTG Val	ATA Ile	GGT G1y	GAC Asp	ACG Thr 275
GAC Asp	CTG Leu 210	ATG Met	CTT	AAG Lys	AGC Ser
ATC Ile	ATA Ile	TCC Ser 225	AAT Asn	GCC Ala	GTG Val
GCG Ala	GGA Gly	TCA Ser	TAT Tyr 240	CTT	GTA Val
GGG Gly	ATA Ile	CTG	AGC Ser	GAT ASP 255	TTA Leu
ТАС ТУГ 190	CAG Gln	TCG Ser	CTT	ATT Ile	GTG Val 270
ATG Met	AAG Lys 205	CCG	ATA Ile	TCC Ser	TAT Tyr
GTG Val	CCG	ACG Thr 220	AAT Asn	ATT Ile	ACA Thr
GAG	AAG Lys	CCA Pro	GGT G1y 235	CTC	AAC Asn
GAG Glu	GTG Val	AAC Asn	AGG Arg	GGG Gly 250	AAA Lys
GCG Ala 185	666 Gly	TTT Phe	CTIN	GCT Ala	CGT Arg 265
GAG Glu	ACG Thr 200	TTG	AAG Lys	AGT Ser	TAC Tyr
GCC Ala	AAG Lys	AGC Ser 215	TAC	TGC	GTT Val

. 1256	1304	1352	1400	1448	1496
TTC AAG ATG ACG AAC GTG AAG CCA TAC ATC CCA GAT TTC Phe Lys Met Thr Asn Val Lys Pro Tyr Ile Pro Asp Phe 395 405	GCG AAC GAC TTC TGC ATC CAT GCA GGA GGC AAA GCA GTG Ala Asn Asp Phe Cys Ile His Ala Gly Gly Lys Ala Val 410	CTC GAG AAG AAC TTG GAG TTG ACG CCA TGG CAC CTT GAA Leu Glu Lys Asn Leu Glu Leu Thr Pro Trp His Leu Glu 430	ATG ACA CTG TAT AGG TTT GGG AAC ACA TCG AGT AGC TCA Met Thr Leu Tyr Arg Phe Gly Asn Thr Ser Ser Ser Ser 445	GAG TTG GCA TAC GCT GAA GCA AAA GGG AGG ATC CGT AAG Glu Leu Ala Tyr Ala Glu Ala Lys Gly Arg Ile Arg Lys 465	ACT TGG ATG ATT GGA TTT GGT TCA GGT TTC AAG TGT AAC Thr Trp Met Ile Gly Phe Gly Ser Gly Phe Lys Cys Asn 475
CGT AAG GTC Arg Lys Val	AAG TTG GCA Lys Leu Ala	TTG GAT GAG Leu Asp Glu 425	CCC TCG AGG Pro Ser Arg 440	TTA TGG TAC Leu Trp Tyr 455	GGT GAT CGA Gly Asp Arg

FIG. 2E

1544	1592	1640	1700	1733
AGT GTT GTG TGG AGG GCT TTG AGG AGT GTC AAT CCG GCT AGA GAG AAG 154 Ser Val Val Trp Arg Ala Leu Arg Ser Val Asn Pro Ala Arg Glu Lys 495	AAT CCT TGG ATG GAT GAA ATT GAG AAG TTC CCT GTC CAT GTG CCT AAA 159 Asn Pro Trp Met Asp Glu Ile Glu Lys Phe Pro Val His Val Pro Lys 505	ATC GCA CCT ATC GCT TCG TAGAACTGCT AGGATGTGAT TAGTAATGAA Ile Ala Pro Ile Ala Ser 520	AAATGTGTAT TATGTTAGTG ATGTAGAAAA AGAAACTTTTA GTTGATGGGT GAGAACATGT 1700	CTCATTGAGA ATAACGTGTG CATCGTTGTG TTG
-				

51	6	147	195	243	291
GTCGACACA ATG AAG GCC AAA ACA ATC ACA AAC CCG GAG ATC CAA GTC TCC Met Lys Ala Lys Thr Ile Thr Asn Pro Glu Ile Gln Val Ser 1	ACG ACC ATG ACC ACG ACC ACG ACC GCC ACT CTC CCC AAC TTC AAG Thr Thr Met Thr Thr Thr Thr Thr Ala Thr Leu Pro Asn Phe Lys 15 25 30	TCC TCC ATC AAC TTA CAC CAC GTC AAG CTC GGC TAC CAC TAC TTA ATC Ser Ser Ile Asn Leu His His Val Lys Leu Gly Tyr His Tyr Leu Ile 35 45	TCC AAT GCC CTC TTC CTC GTA TTC ATC CCC CTT TTG GGC CTC GCT TCG Ser Asn Ala Leu Phe Leu Val Phe Ile Pro Leu Leu Gly Leu Ala Ser 50 55	GCC CAC CTC TCC TTC TCG GCC CAT GAC TTG TCC CTG CTC TTC GAC Ala His Leu Ser Ser Phe Ser Ala His Asp Leu Ser Leu Leu Phe Asp 65 75	CTC CTT CGC CGC AAC CTC CTC CCC GTT GTC GTT TGT TCT TTC CTC TTC Leu Leu Arg Arg Asn Leu Leu Pro Val Val Val Cys Ser Phe Leu Phe 80
Ŋ	$A \vdash L$	HΩ	H O	U A	O II

FIG. 3A

339	387	435	483	531	579
TAC Tyr 110	TCC Ser	AAG Lys	GGC G1y	CCG	GCG Ala 190
GTC Val	ACA Thr 125	TCT Ser	ATG Met	GAG Glu	GGG G1y
AAT Asn	ATA Ile	TTT Phe 140	GGT Gly	CCC Pro	TAC
AGG Arg	CTG	TCG Ser	GCC Ala 155	CCG Pro	ATG Met
CCT	AAC Asn	666 61y	AGG Arg	GTG Val 170	GTG Val
CGG Arg 105	CCG	GCC Ala	GAG Glu	AAG Lys	GAG Glu 185
ACC Thr	CAC His 120	CGG Arg	TTG	ACT Thr	GAG Glu
TTG	CCT	TCC Ser 135	ATC Ile	GTC Val	GCG Ala
TTC	AAG Lys	ACC Thr	AAG Lys 150	TCC	GAG Glu
CAT	TAT Tyr	CGG Arg	AGG Arg	GAA Glu 165	GCC
CTA Leu 100	TGC Cys	GAC Asp	CAG Gln	CCC	AGG Arg 180
ACC	GCC Ala 115	ATG Met	TTT Phe	GTC Val	GCC Ala
GCA Ala	TTT Phe	TTC Phe 130	GAG Glu	TAC TYr	GCA Ala
TTA Leu	GAC Asp	ATG Met	ATT Ile 145	ACC Thr	GCA Ala
TTA	GTG Val	GAG Glu	AAT Asn	GAA Glu 160	ATA Ile
GTT Val 95	TTG	CAC His	GAG Glu	CGG Arg	AGC Ser 175

FIG. 3B

627	675	,	771	819	867
GGA G1y	TCA Ser	$\mathtt{TAT}\\ \mathtt{TY} x$	CTT	. GTG Val 270	Ser
ATA Ile 205	CTG Leu	AGC Ser	GAT Asp	GTA Val	CGC Arg 285
CAG Gln	TCG Ser 220	CTT	ATT Ile	TTA Leu	GAC ASP
AAG Lys	CCG	ATA Ile 235	TCC Ser	GTG Val	AAT Asn
CCG	ACG Thr	AAT Asn	ATT Ile 250	TAT Tyr	GGC Gly
AAG Lys	CCA Pro	GGT Gly	CTC	ACA Thr 265	TGG
GTG Val 200	AAC Asn	AGG Arg	GGG G1Y	AAC Asn	TAC TYF 280
GGG Gly	TTT Phe 215	CTT Leu	GCT Ala	CGT Arg	TGG
ACG Thr	TTG	AAG Lys 230	AGT Ser	TAC	AAT Asn
AAG Lys	AGC	TAC	TGC Cys 245	GTT Val	CTT Leu
GAG Glu	TGC Cys	CAT His	GGT Gly	CAG Gln 260	ACC Thr
TTG Leu 195	AAC Asn	AAC Asn	ATG Met	CTA	ATG Met 275
GTG Val	GTG Val 210	GTT Val	66C 61y	CTC	AAC Asn
GAC GAG Asp Glu	GTG Val	ATA Ile 225	GGT Gly	AAG GAC Lys Asp	GAA Glu
GAC ASP	CTG	ATG Met	CTT Leu 240		ACA Thr
ATC Ile	ATA Ile	TCC	AAT Asn	GCC Ala 255	AGC Ser

FIG. 30

915	963	1011	1059	1107	1155
CTT ATC ACC AAC TGC CTA TTT CGC ATG GGT GGC GCT GCC ATC ATC Leu Ile Thr Asn Cys Leu Phe Arg Met Gly Gly Ala Ala Ile Ile 290	TCA AAC CGC TGG CGT GAT CGT CGC CGA TCC AAG TAC CAA CTC CTT Ser Asn Arg Trp Arg Asp Arg Arg Arg Ser Lys Tyr Gln Leu Leu 305	ACA GTA CGC ACC CAC AAG GGC GCT GAC GAC AAG TCC TAT AGA TGC 1 Thr Val Arg Thr His Lys Gly Ala Asp Asp Lys Ser Tyr Arg Cys 320	TTA CAA CAA GAA GAT GAA AAT AAC AAG GTA GGT GTT GCC TTA TCC Leu Gln Glu Asp Glu Asn Asn Lys Val Gly Val Ala Leu Ser 345	GAT CTG ATG GCA GTT GCC GGT GAA GCC CTA AAG GCC AAC ATC ACG 1 Asp Leu Met Ala Val Ala Gly Glu Ala Leu Lys Ala Asn Ile Thr 355 365	CTT GGT CCC CTC GTG CTC CCC ATG TCA GAA CAA CTC CTC TTC TTT Leu Gly Pro Leu Val Leu Pro Met Ser Glu Gln Leu Leu Phe Phe 370
ATG Met	CTC	CAC His	GTC Val 335	AAG Lys	ACC Thr

FIG. 3D

1203	1251	1299	1347	1395	1443
CGT AAG GTC TTC AAG ATG ACG AAC GTG AAG CCA 1203 Arg Lys Val Phe Lys Met Thr Asn Val Lys Pro 390	AAG TTG GCA GCG AAG CAC TTC TGC ATC CAT GCA 1251 Lys Leu Ala Ala Lys His Phe Cys Ile His Ala 410	TTG GAT GAG CTC GAG ACG AAC TTG GAG TTG ACG 1299 Leu Asp Glu Leu Glu Thr Asn Leu Glu Leu Thr 420	CCC TCG AGG ATG ACA CTG TAT AGG TTT GGG AAC 1347 Pro Ser Arg Met Thr Leu Tyr Arg Phe Gly Asn 440	TTA TGG TAC GAG TTG GCA TAC GCT GAA GCA AAA 1395 Leu Trp Tyr Glu Leu Ala Tyr Ala Glu Ala Lys 455	GGT GAT CGA ACT TGG ATG ATT GGA TTT GGT TCA 1443 Gly Asp Arg Thr Trp Met Ile Gly Phe Gly Ser 470
GCC ACC TTA GTG GCA C Ala Thr Leu Val Ala A 385	TAC ATC CCA GAT TTC A Tyr Ile Pro Asp Phe I 400	GGA GGC AAA GCA GTG 1 Gly Gly Lys Ala Val I 415	CCA TGG CAC CTT GAA (Pro Trp His Leu Glu E	ACA TCG AGT AGC TCA 1 Thr Ser Ser Ser I 450	GGG AGG ATC CGT AAG (Gly Arg Ile Arg Lys (

FIG. 31

FIG. 31

009	GAGTCGGATA	AAACCGTTAA	GAGAAATAAG	GAGGGAGAAA GAGTGACGTG GAGAAATAAG AAACCGTTAA GAGTCGGATA	_	PATCGAAGGG
540	GAGATAGCAT	GAGGCGACGA	TACCGGAGGA	GAGAGACG CGGCGGATAT TACCGGAGGA GAGGCGACGA GAGATAGCAT	GAGAGAGACG	SAGAGGTTTA
480	AGAGAGACTG	GCAGCTTTGG	TAGAGAGAGT	GTGGGTTTGG CTCTTTTGGA TAGAGAGAGT GCAGCTTTGG AGAGAGACTG	GTGGGTTTGG	SAAAGGGGAA
420	CGGTTTTGGG	ATAGACGGAG ATGGATCGAG CGGTTTTGGG	ATAGACGGAG	TCGGAGATTT	AGGTTGTTCA	CCTGGTGAAG
360	CGAATCCGAG	GGACGAGACC	GTCGGGTTGG	GCGATTGCGG CGGAAGCCGG GTCGGGTTGG GGACGAGACC CGAATCCGAG	GCGATTGCGG	3GTCCTTGC
300	CATCGTCGTC	GGAGACGGAA	TTGCTGACCT	CCGGCGCCGA ATTGCGCGAA TTGCTGACCT GGAGACGGAA CATCGTCGTC	CCGGCGCCGA	CCAGAAGCAA
240	ATTCCGCTCC	TGGTACGCCA ATTCCGCTCC	TCGTCACGCC TGGAACCCTC	TCGTCACGCC	ACCTCCGTCT	SCTATACCCA
180	CGAATCCATG	GGATTATCGA CGAATCCATG	CTCGTAGCTC	STCGTCTCCG AACAGACATC	GTCGTCTCCG	STTATGTCCC
120	GAACAATCTC	TACTGAACCC GAACAATCTC	TTTCGGATCG	AAGCTCTCAA AGCTGACCTC	AAGCTCTCAA	AACATCGAGC
09	GCTTCCAGAA	GGATCATGAC	CAACGTGGTC	TACCTCTAGA CCTGGCGATT CAACGTGGTC GGATCATGAC GCTTCCAGAA	TACCTCTAGA	360606006

FIG. 4A

1200	ACGTTATGTT	ATATGGTAAA	GGTATCGTCT	ACTTCTTTCC CTTTTTAAGT GGTATCGTCT ATATGGTAAA ACGTTATGTT	ACTTCTTTCC	PATATGTTGT
1140	CTTTTGTTAA ATTTGTGTGT TTCTATTTGT AAACCTCCTG	TTCTATTTGT	ATTTGTGTGT		TTCTTTTGG	CAGTCTTTTG
1080	GATGATATCA	AAAGGGGGAA	TTTGATCAAT GTTTATAATA AAAGGGGAA GATGATATCA	TTTGATCAAT	GTGTTTAGAA	SAGCAATAAG
1020	TCCAGTTTAT	ATGTCGGGAG	TTCATAGTCC AATAAGGCTG ATGTCGGGAG TCCAGTTTAT	TTCATAGTCC	CATGACTATT	PAATTACGC
096	ATCCCTGCAG	AAGTCGACGG	ACAAGAAGCA AAGTCGACGG	CTCTCAATTC	TCTTCGATCT	CATCCTTTTC
006	AATACATACA	CTATTCGGAA	ATTGTCATAG	TCAACTACTC ATTGTCATAG CTATTCGGAA AATACATACA	TCTAATCAAT	TCATATATC
840	TICCCTICIC	CCTGACTCTC	GCCATTGACA	GGCGTAGGAT GCATGACGAC GCCATTGACA CCTGACTCTC	GGCGTAGGAT	ATTAACACGT
780	TGGTGAAGCC	AATGGCTGCA TGGTGAAGCC	TTTACACCTC	CCTCAAGTAA ACCCCTGCCG TTTACACCTC	CCTCAAGTAA	ACAAACGTGT
720	TAGGAACAAA	GCCAACGCCA	GGTTTCAAAT	TTAACAGAGT GTTAACGTTC GGTTTCAAAT GCCAACGCCA TAGGAACAAA	TTAACAGAGT	FIGTGTTAAG
099	TAAATGGGCC	ACAAGACAGA	ACCCATTTAA	TAAAAGCCCA ATGGGCCTGA ACCCATTTAA ACAAGACAGA TAAATGGGCC	TAAAAGCCCA	TTATCATAT

FIG. 4B

1260	1320	1380	1440	1500	1560	1620	1647
TAGTTATATT	AGCCGAGCTG	GAAGATCTCT	AGCTCTTAAC	TTACAATGGC	AGTTTGTTTC	TTGAGACATG	
GTTTTATCTT	GTAGACTAGC	AACAGCTGGC AATGTGAACA CTGGATGCAA GATCAGATGT GAAGATCTCT	GTTGGCATTA	CIGAIGCAGI CAITGGITCA TACACATATA TAGTAAGGAA TTACAAIGGC	ATCGAATAAG	ATGGGATGTA ATACATGGGA TTTGGGAGTT TGAATGAACG	
AAGACTGCAT	GTTCCGTAGA	CTGGATGCAA	CTATATTTT	ТАСАСАТАТА	GAATTGCCTT	TTTGGGAGTT	
TTAGGATAAA	CATAGATCTG	AATGTGAACA	CATATCGTGT	CATTGGTTCA	TAGGCCACCT	ATACATGGGA	ටවටවටවට
TGGTCTTTCC TTTTCTCTGT TTAGGATAAA AAGACTGCAT GTTTTTATCTT TAGTTATATT	AATGAACTTT CATAGATCTG GTTCCGTAGA GTAGACTAGC AGCCGAGCTG	AACAGCTGGC	TGGGATTGAA CATATCGTGT CTATATTTTT GTTGGCATTA AGCTCTTAAC	CTGATGCAGT	TCAAAAACAG TAGGCCACCT GAATTGCCTT ATCGAATAAG AGTTTGTTTC	ATGGGATGTA	TAGAGGTACC
TGGTCTTTCC	ATGTTGAGTA	AGCTGAACTG	AATATGGTGG	ATAGATATAA	AACCCAAACT	CCCCCACTTC	GCAGAACCTC

48	96	144	192	240	288	336
GTT	TTC	AAC	GTT	GTT	GAT	TGC
Val	Phe	Asn	Val	Val	Asp	Cys
ATT	ACG	GTA	GCG	GAA	$\mathtt{TAT}\\ \mathtt{TYY}$	GTT
Ile	Thr	Val	Ala	Glu		Val
GAG	CCA	TCC	CAT	GCC	GAC	ACC
Glu	Pro		His	Ala	Asp	Thr
ACC	TCA	CAA	AAC	AGT	TGG	TTG
Thr	Ser	Gln	Asn	Ser	Trp	Leu
TCT Ser	$_{\rm G1y}^{\rm GGT}$	CTT	ATA Ile	TTT Phe	CTT Leu	GTC Val
CIC	GCC	TTT	CTC	GTG	AAG	TTT
	Ala	Phe	Leu	Val	Lys	Phe
CTA	AAC	GAT	TAC	CTT	AAG	GTC
Leu	Asn	Asp	Tyr	Leu	Lys	Val
GAT ASP	CCA Pro	CCG	CAC His	GTG Val	TGG	$_{\rm G1Y}^{\rm GGT}$
CAA	GGT	TTA	$\mathtt{TAT}\\ \mathtt{TY} x$	CTT	ATT	TTC
G1n	Gly	Leu		Leu	Ile	Phe
GAA Glu	TCC	CGT Arg	GGT Gly	GTT Val	GAG Glu	TTC
AGC	CCT	AGA	CTT	CCG	GAA	GGA
Ser		Arg	Leu	Pro	Glu	Gly
TCT	GAA	CGG	AAA	ATA	GGA	ATC
Ser	Glu	Arg	Lys	Ile	Gly	Ile
AGG	ATC	GTC	GTG	ACG	AGC	GTC
Arg	Ile	Val	Val	Thr	Ser	Val
AGT Ser	966 61y	AGA Arg	TAC	GCG Ala	TTA Leu	ACC
ATG	CGT	GTC	AAG	rīG	AGT	ATC GCA ACC
Met	Arg	Val	Lys	Leu	Ser	Ile Ala Thr
GAA ATG AGT Met Ser	AAC Asn	TCG Ser	TTG Leu	TAC '	GGG	ATC Ile

FIG. 5A

384	432	480	528	576	624	672	720	
Ē ď	e P	ည ဈ	일 다	Ę, Ņ	ည် ၅	N ti	ži Č	
GCT Ala	ATA Ile	TTC	GTC Val	GGT Gly	TTC Phe	AAC	AAC Asn	
TTC Phe	TTC Phe	GGA Gly	$ extsf{TAC}$	GAA Glu	CTC	GTT Val	ATT Ile	
GAC Asp	GAG Glu	CTC Leu	ACG Thr	AAA Lys	GAA Glu	GTG Val	GTG Val	
ATT Ile	GAA G1u	ATC Ile	GAA G1u	ATG Met	GAC Asp	CTC	ATG Met	
CTC	AGA Arg	GAG Glu	GAT Asp	ACG Thr	CTC	GTC Val	GCG Ala	
$\mathtt{TAT}\\\mathtt{TY}\mathcal{I}$	ACA Thr	GAA Glu	GGC G1y	ACA Thr	GCA Ala	GGT G1y	TCC Ser	5B
GTT Val	GTG Val	GAC Asp	ATA Ile	ACA Thr	GGC Gly	GTA Val	CTC Leu	FIG.
TCT	AAG Lys	TTC Phe	GGA Gly	AAC Asn	TTC	GAC Asp	TCA Ser	
CGA Arg	CTT Leu	AAG Lys	TCA Ser	GAA Glu	ATA Ile	AAA Lys	CCG Pro	
CCA	GAA Glu	GGC Gly	GCC Ala	TCG Ser	ATG Met	CCG	ACT Thr	
CGT Arg	GAT Asp	TCA Ser	CAA Gln	TCG Ser	ATG Met	AAA Lys	CCG Pro	
TCT Ser	TCC Ser	AAA Lys	CTT Leu	TCT Ser	TCG	GTC Val	AAC Asn	
ATG Met	CCT	AGA Arg	ATC Ile	ATC Ile	GCC Ala	CGT Arg	TTT Phe	
TTC Phe	AAG Lys	GCT Ala	AGG Arg	TCA Ser	GAA Glu	ACA Thr	ATC Ile	
TAC Tyr	TTC Phe	CTA Leu	AAG Lys	AGA Arg	GAA Glu	AAG Lys	AGT Ser	
GTC Val	TGT Cys	GAT Asp	AAG Lys	CCA	CGT	GAG Glu	TGC	

768	816	864	912	096	1008	1056	1104	
ATG Met	CTT Leu	GTT Val	AAC Asn	CGC Arg	ACT Thr	GAA Glu	GAA Glu	
$ ext{GGG}$	ATG Met	ATG Met	CCT Pro	CGC Arg	CGG Arg	GAA Glu	ATG Met	
GGA Gly	GAC Asp	GAG Glu	ATA Ile	AAC Asn	GTC Val	CAG Gln	CTA	
CTA	CGT	ACC Thr	GTT Val	TCT Ser	ATT Ile	TAC Tyr	GAC Asp	
AAC Asn	GCT	AGT Ser	ATG Met	CTG	CAC His	GTG Val	AGA Arg	
TAC	CTT	GTG Val	TCA Ser	ATG Met	GAG Glu	AGT Ser	AGC Ser	5 C
AGC Ser	GAT Asp	GTT Val	AAG Lys	GTT Val	CTT Leu	AGG Arg	ATA Ile	FIG.
CTT Leu	GTT Val	GTG Val	GAC ASD	GCC Ala	CGC Arg	TTC Phe	AAA Lys	
ATA Ile	GCC Ala	GCG Ala	CGT Arg	TCC Ser	$ ext{TAC}$	AGC Ser	TTA Leu	
AAC Asn	ATA Ile	\mathtt{TAC}	GGA Gly	TGC Cys	AAG Lys	CGT Arg	GGA Gly	
$ ext{GGG}$	ATC Ile	AGT Ser	GTG Val	$_{\rm GLY}^{\rm GGT}$	GCT Ala	GAC Asp	AAG Lys	
AGA Arg	GGA Gly	AAT Asn	$\mathtt{TAC}\\ \mathtt{TY}_{\mathcal{I}}$	ATG Met	CAT His	GAC Asp	TTC	
ATG Met	GCA Ala	CCG Pro	TGG Trp	AGG Arg	CGC Arg	GCC Ala	GGA Gly	
AAG Lys	TCA Ser	AAC Asn	AAT Asn	TTT Phe	TTC Phe	GCT Ala	CAA Gln	
$\mathrm{TAC} \\ \mathrm{TY}_{\mathcal{I}}$	TGC	TCT Ser	$\mathtt{TAT}\\ \mathtt{TY} r$	TTC Phe	GAC Asp	AAG Lys	GAA Glu	
CAC His	GGT Gly	CAG Gln	GGG G1y	TGC Cys	CGT Arg	CAC His	GAT Asp	

	Asn linr ser ser Gly lle lirp lyr Glu Leu Ala lyr Met FIG. 5D
1488	GGA AAC ACT TCC AGC AGT GGA ATC TGG TAC GAG CTT GCT TAC ATG GAG
1440	TTG AGT GAT GAG AAC ATG GAG GCT TCT AAG ATG ACT TTA CAC AGG TTT Leu Ser Asp Glu Asn Met Glu Ala Ser Lys Met Thr Leu His Arg Phe
1392	CAC GCG GCA AGC AAA GCG GTG CTT GAG GAG CTT CAG AAG AAT CTA GGC His Ala Ala Ser Lys Ala Val Leu Glu Glu Leu Gln Lys Asn Leu Gly
1344	AAG CCG TAC ATC CCG GAC TAC AAG CTT GCC TTC GAG CAT TTC TGC TTC Lys Pro Tyr Ile Pro Asp Tyr Lys Leu Ala Phe Glu His Phe Cys Phe
1296	ACT GCG AAA ATC AAC GGA GCC AAG TCG TCA TCC TCC TCT GAT CTA TCC Thr Ala Lys Ile Asn Gly Ala Lys Ser Ser Ser Ser Ser Asp Leu Ser
1248	AGA ACT TTC TCA CCC GCC GCC AAA ACT ACC ACC TCC TCC TCA GCC Arg Thr Phe Ser Pro Ala Ala Lys Thr Thr Thr Thr Ser Ser Ala
1200	GTC CTT CCT TTC TCC GAG CAG CTT CTC TTC TTT GCC GCT TTG ATC CGT Val Leu Pro Phe Ser Glu Gln Leu Leu Phe Phe Ala Ala Leu Ile Arg
1152	GTT GGA GGT GAA GCT CTC AAG ACC AAC ATC ACC ACC TTA GGC CCT CTC Val Gly Gly Glu Ala Leu Lys Thr Asn Ile Thr Thr Leu Gly Pro Leu

1536	1584	1632	1687	1747	807	1810
\leftarrow	 1	← 1	\vdash	Ω H	A .1	П
TTT Phe	AAG Lys	CGT Arg	TAA	ATCTCTCTTC CTTGTTG GATGATAGAC GTTTGTTTGC TGGTCATTCG	TCAAGTCCAA AAAAAAAAA AAAAAAAAA 1807	
GCT Ala	AGG	AAC Asn	TCTTAATTAA	[GGTC	AAAA2	
ATT Ile	GCA ATG Ala Met	ATT Ile	r IC	- GC	AAA 1	
CAG ATT Gln Ile	GCA Ala	TGC ATT Cys Ile	[TTC]	rgtrty	AAA4	
GTT TGG Val Trp	AAG Lys	GAT ASP	TGATCATTTA TTTTTAAAAT TATTATTTCT	GTT	AAA7	
GTT Val	TGG	GTT Val	YT TY	AGAC	CCAA	
AGG Arg	GTT Val	TGG Trp	raaa.	rgati	AAGT	
	GTG Val	CCT 7		GA.	r TC2	
AGA GGC Arg Gly	AAC AGT Asn Ser	AAT Asn	rta 1	rGTTC	\TGG1	
AGA Arg		AAC Asn	CAT	PTGTJ	ATGG2	
CGT Arg	TGT Cys	AGG Arg	TGAI	ည ည	AG AZ	
GTT Val	AAG Lys	GCA Ala	CTC	CTCT	CTTCTATAAG AATGGATGGT	
AGT Ser	TTT Phe	CCG	GCT Ala	ATCT(CTTC	
GAG Glu	$_{\rm G1Y}$	AAG Lys	GTC Val			
AAG Lys	TCA (AAG Lys	CCT Pro	ATCATCTATG	TATCTTAAGA	
GCC	$ ext{GGG}$	GTG Val	TAC	ATC?	TATC	AAA

FIG. SE

51	66	147	195	243	291	339	
GTCGACAAA ATG ACG TCC ATT AAC GTA AAG CTC CTT TAC CAT TAC GTC ATA 5 Met Thr Ser Ile Asn Val Lys Leu Leu Tyr His Tyr Val Ile	ACC AAC CTT TTC AAC CTT TGT TTC TTT CCA TTA ACG GCG ATC GTC GCC Thr Asn Leu Phe Asn Leu Cys Phe Pro Leu Thr Ala Ile Val Ala	GGA AAA GCC TAT CGG CTT ACC ATA GAC GAT CTT CAC CAC TTA TAC TAT 14 Gly Lys Ala Tyr Arg Leu Thr Ile Asp Asp Leu His His Leu Tyr Tyr	TCC TAT CTC CAA CAC AAC CTC ATA ACC ATT GCT CCA CTC TTT GCC TTC 19 Ser Tyr Leu Gln His Asn Leu Ile Thr Ile Ala Pro Leu Phe Ala Phe	ACC GTT TTC GGT TCG GTT CTC TAC ATC GCA ACC CGG CCC AAA CCG GTT 24 Thr Val Phe Gly Ser Val Leu Tyr Ile Ala Thr Arg Pro Lys Pro Val	TAC CTC GTT GAG TAC TCA TGC TAC CTT CCA CCA ACG CAT TGT AGA TCA 29 Tyr Leu Val Glu Tyr Ser Cys Tyr Leu Pro Pro Thr His Cys Arg Ser	AGT ATC TCC AAG GTC ATG GAT ATC TTT TAC CAA GTA AGA AAA GCT GAT 33 Ser Ile Ser Lys Val Met Asp Ile Phe Tyr Gln Val Arg Lys Ala Asp	
· ·	7		_ O ₂	7		~ 01	

FIG. 6A

387	435	483	531	579	627	675	723	
CCT TCT CGG AAC GGC ACG TGC GAT GAC TCG TCC TGG CTT GAC TTC TTG 387 Pro Ser Arg Asn Gly Thr Cys Asp Asp Ser Ser Trp Leu Asp Phe Leu	AGG AAG ATT CAA GAA CGT TCA GGT CTA GGC GAT GAA ACC CAC GGG CCC 435 Arg Lys Ile Gln Glu Arg Ser Gly Leu Gly Asp Glu Thr His Gly Pro	GAG GGG CTG CTT CAG GTC CCT CCC CGG AAG ACT TTT GCG GCG GCG CGT 483 Glu Gly Leu Leu Gln Val Pro Pro Arg Lys Thr Phe Ala Ala Ala Arg	GAA GAG ACG GAG CAA GTT ATC ATT GGT GCG CTA GAA AAT CTA TTC AAG 531 Glu Glu Thr Glu Gln Val Ile Ile Gly Ala Leu Glu Asn Leu Phe Lys	AAC ACC AAT GTT AAC CCT AAA GAT ATA GGT ATA CTT GTG GTG AAC TCA 579 Asn Thr Asn Val Asn Pro Lys Asp Ile Gly Ile Leu Val Val Asn Ser	AGC ATG TTT AAT CCA ACT CCT TCG CTC TCC GCG ATG GTC GTT AAC ACT 627 Ser Met Phe Asn Pro Thr Pro Ser Leu Ser Ala Met Val Val Asn Thr	TTC AAG CTC CGA AGC AAC GTA AGA AGC TTT AAC CTT GGT GGC ATG GGT 675 Phe Lys Leu Arg Ser Asn Val Arg Ser Phe Asn Leu Gly Gly Met Gly	CTA GCA AAG GAC TTG TTG CAT Leu Ala Lys Asp Leu Leu His	FIG. 6B
Ω Щ	A A	J D	5 5	44	A N	ΕР	ΗO	

771	819	867	915	963	1011	1059	1107
ACT	TGC	AGA	CAT	GTT	GTT	ATT	AAG
Thr	Cys	Arg		Val	Val	Ile	Lys
ATC Ile	AAT Asn	CCT	ACG Thr	GAC ASP	GAT Asp	TTG	GGC Gly
AAC	TCA	AAG	CGA	GGA	ACC	CCG	ATG
Asn	Ser	Lys	Arg	G1y	Thr		Met
GAG	GTT	AAC	GTT	CAA	ATA	GGT	TTC
Glu	Val	Asn	Val	Gln	Ile	Gly	Phe
ACA Thr	ATG Met	TCC	ACG Thr	CAA Gln	GAC Asp	CTG	ACC Thr
AGC	ATG	CTC	CAC	GTG	AAG	ACG	GTT
Ser	Met		His	Val	Lys	Thr	Val
GTG Val	TCC	TTG	GTT Val	TGC Cys	TCC Ser	GCA Ala	TTC Phe
GTG Val	AGG Arg	ATT Ile	CTA	CGT Arg	TTG	ATA Ile	TTT Phe
CTT	AAT	GCT	GAG	TTT	AGT	AAC	CTT
Leu	Asn	Ala	Glu	Phe	Ser	Asn	Leu
GCT	GAT	GCC	TAC	TCT	GTG	AAA	CTT
Ala	Asp	Ala	Tyr	Ser	Val	Lys	Leu
TAT	$_{\rm GLY}^{\rm GGT}$	GGG	AAG	AAG	GGA	AAG	AAA
Tyr		G1y	Lys	Lys	Gly	Lys	Lys
ACG	GCT	$ ext{GGT}$	TCC	GAC	ACC	GTT	GAG
Thr	Ala		Ser	Asp	Thr	Val	Glu
AAT	TAC	GTT	CGG	GAC	AAA	ACG	AGC
Asn	Tyr	Val	Arg	Asp	Lys	Thr	
AAA	ATT	CGT	AGA	GCT	GGC	CGA	TTA
Lys	Ile	Arg	Arg	Ala		Arg	Leu
CAT	AAC	TTC	CGT	GGA	AAC	GGT	CCG
His	Asn		Arg	Gly	Asn	Gly	Pro
GTC Val	\mathtt{TAT}	TTG Leu	GAT Asp	ACC Thr	GAG Glu	GCT Ala	CTT

FIG. 6C

1155	1203	1251	1299	1347	1395	1442
GAC TTC AAG	GCC GTG ATT	GTA GAG GCA	AGC TCA ATA	AAG AAA GGT	TGT AAC AGT	TAGGATCC
Asp Phe Lys	Ala Val Ile	Val Glu Ala	Ser Ser Ile	Lys Lys Gly	Cys Asn Ser	
GTC CCG (Val Pro 2	GGC AAA GIY LYS A	ATC GAT (Ile Asp	TCA TCT Ser Ser	AGG ATG Arg Met	TTT AAG Phe Lys	TCC AAA Ser Lys
TAC	GGA	CCG	ACT	GGA	GGC	GCT
Tyr	Gly	Pro	Thr	Gly	Gly	Ala
CAT TAT	CAT GCC	CTA GCA	GGA AAC	GCA AAA	GGG TCA	GTC AAA
His Tyr	His Ala	Leu Ala	Gly Asn	Ala Lys	Gly Ser	Val Lys
ATC AAA	TGT ATA	CTA GGC	AGA TTT	ATA GAA	GCT TTA	AAC AAT
Ile Lys	Cys 11e	Leu Gly	Arg Phe	Ile Glu	Ala Leu	Asn Asn
AAA Lys	TTT Phe	AAC Asn	CAT His	TAC	ATT Ile	CTA
AAA GAC	GAC CAT	GAG AAG	ACG TTA	TTG GCA	TGG CAG	GTG GCT
Lys Asp	Asp His	Glu Lys	Thr Leu	Leu Ala	Trp Gln	Val Ala
CTT TTC I	GCT ATC Ala Ile	GTG CTA Val Leu	AGA TCA Arg Ser	TAT GAG Tyr Glu	AAA GTT Lys Val	GTT TGG Val Trp
AAA C. Lys Le	CTT G Leu A'	GAT G	TCA A(Ser A:	TGG T	AAT A Asn L	GCA G Ala V

FIG. 6L

51	66	147	195	243	291	339
GTCGACAAA ATG ACG TCC ATT AAC GTA AAG CTC CTT TAC CAT TAC GTC ATA Met Thr Ser Ile Asn Val Lys Leu Leu Tyr His Tyr Val Ile	ACC AAC CTT TTC AAC CTT TGC TTC TTT CCG TTA ACG GCG ATC GTC GCC Thr Asn Leu Phe Asn Leu Cys Phe Phe Pro Leu Thr Ala Ile Val Ala	GGA AAA GCC TAT CGG CTT ACC ATA GAC GAT CTT CAC CAC TTA TAC TAT 1 Gly Lys Ala Tyr Arg Leu Thr Ile Asp Asp Leu His His Leu Tyr Tyr	TCC TAT CTC CAA CAC AAC CTC ATA ACC ATC GCT CCA CTC TTT GCC TTC 1 Ser Tyr Leu Gln His Asn Leu Ile Thr Ile Ala Pro Leu Phe Ala Phe	ACC GTT TTC GGT TCG GTT CTC TAC ATC GCA ACC CGG CCC AAA CCG GTT 2 Thr Val Phe Gly Ser Val Leu Tyr Ile Ala Thr Arg Pro Lys Pro Val	TAC CTC GTT GAG TAC TCA TGC TAC CTT CCA CCA ACG CAT TGT AGA TCA 2 Tyr Leu Val Glu Tyr Ser Cys Tyr Leu Pro Pro Thr His Cys Arg Ser	AGT ATC TCC AAG GTC ATG GAT ATC TTT TAT CAA GTA AGA AAA GCT GAT 3 Ser ile Ser Lys Val Met Asp ile Phe Tyr Gln Val Arg Lys Ala Asp

FIG. 7A

	FIG. 7B
723	TGT AGT GCC GGC GTT ATA GCC ATT GAT CTA GCA AAG GAC TTG TTG CAT Cys Ser Ala Gly Val Ile Ala Ile Asp Leu Ala Lys Asp Leu Leu His
675	TTC AAG CTC CGA AGC AAC GTA AGA AGC TTT AAC CTT GGT GGC ATG GGT Phe Lys Leu Arg Ser Asn Val Arg Ser Phe Asn Leu Gly Gly Met Gly
627	AGC ATG TTT AAT CCA ACT CCA TCG CTC TCC GCG ATG GTC GTT AAC ACT Ser Met Phe Asn Pro Thr Pro Ser Leu Ser Ala Met Val Val Asn Thr
579	AAC ACC AAC GTT AAC CCT AAA GAT ATA GGT ATA CTT GTG GTG AAC TCA Asn Thr Asn Val Asn Pro Lys Asp Ile Gly Ile Leu Val Val Asn Ser
531	GAA GAG ACG GAG CAA GTT ATC ATT GGT GCG CTA GAA AAT CTA TTC AAG Glu Glu Thr Glu Gln Val Ile Ile Gly Ala Leu Glu Asn Leu Phe Lys
483	GAG GGG CTG CTT CAG GTC CCT CCC CGG AAG ACT TTT GCG GCG GCG CGT Glu Gly Leu Leu Gln Val Pro Pro Arg Lys Thr Phe Ala Ala Arg
435	AGG AAG ATT CAA GAA CGT TCA GGT CTA GGC GAT GAA ACT CAC GGG CCC Arg Lys Ile Gln Glu Arg Ser Gly Leu Gly Asp Glu Thr His Gly Pro
387	CCT TCT CGG AAC GGC ACG TGC GAT GAC TCG TCG TGG CTT GAC TTC TTG Pro Ser Arg Asn Gly Thr Cys Asp Asp Ser Ser Trp Leu Asp Phe Leu

771	819	867	915	963	1011	1059	1107	
ACG TAT GCT CTT GTG GTG AGC ACA GAG AAC ATC ACT	GCT GGT GAT AAT AGG TCC ATG ATG GTT TCA AAT TGC 81	GGT GGG GCC GCT ATT TTG CTC TCC AAC AAG CCT GGA	TCC AAG TAC GAG CTA GTT CAC ACG GTT CGA ACG CAT	GAC AAG TCT TTT CGT TGC GTG CAA CAA GGA GAC GAT	ATC GGA GTG AGT TTG TCC AAG GAC ATA ACC GAT GTT	GTT AAG AAA AAC ATA GCA ACG TTG GGT CCG TTG ATT	GAG AAA CTT CTT TTT TTC GTT ACC TTC ATG GGC AAG	FIG. 7C
Thr Tyr Ala Leu Val Val Ser Thr Glu Asn Ile Thr	Ala Gly Asp Asn Arg Ser Met Met Val Ser Asn Cys	Gly Gly Ala Ala Ile Leu Leu Ser Asn Lys Pro Gly	Ser Lys Tyr Glu Leu Val His Thr Val Arg Thr His	Asp Lys Ser Phe Arg Cys Val Gln Gln Gly Asp Asp	Ile Gly Val Ser Leu Ser Lys Asp Ile Thr Asp Val	Val Lys Lys Asn Ile Ala Thr Leu Gly Pro Leu Ile	Glu Lys Leu Leu Phe Phe Val Thr Phe Met Gly Lys	
AAT A	TAC G	GTT G	CGG T	GAC G	AAA A	ACG G	AGC G	
Asn T	Tyr A	Val G	Arg S	ASP A	Lys I	Thr V	Ser G	
								FIG.
ACG Thr	GCT Ala	GGT Gly	TCC Ser	GAC Asp	ATC Ile	GTT Val	GAG	
CAT AAA A	AAC ATT T.	TTC CGT G	CGT AGA C	GGA GCT G	AAC GGC A	GGT CGA A	CCG TTA A	
His Lys A	Asn Ile T	Phe Arg V	Arg Arg A	Gly Ala A	Asn Gly L	Gly Arg T	Pro Leu S	
GTC C	TAT A	TTG T	GAT C	ACC G	GAG A	GCT G	CTT C	
Val H	Tyr A	Leu P	Asp A	Thr G	Glu A	Ala G	Leu P	

1155	1203	1251	1299	1347	1395	1442
GAT TTC AAA	GCC GTG ATT	GTA GAG GCA	AGC TCA ATA	AAG AAA GGT	TGT AAC AGT	TAGGATCC
Asp Phe Lys	Ala Val Ile	Val Glu Ala	Ser Ser Ile	Lys Lys Gly	Cys Asn Ser	
GTC CÇG (Val Pro A	GGC AGA (Gly Arg)	ATC GAT (Ile Asp	TCA TCT Ser Ser	AGG ATG Arg Arg Met	TTT AAG Phe Lys	TCC AAA Ser Lys
TAC	GGA Gly	CCG Pro	ACT	GGA Gly	GGC Gly	GCT Ala
CAT TAC	CAT GCC	CTA GCA	GGA AAC	GCA AAA	GGG TCA	GTC AAA
His Tyr	His Ala	Leu Ala	Gly Asn	Ala Lys	Gly Ser	Val Lys
AAA	ATA	GCC	TTT	GAA	TTA	AAT
Lys	Ile	Ala	Phe	Glu	Leu	Asn
AAA ATC	TTT TGT	AAC CTA	CAT AGA	TAC ATA	ATT GCT	CTA AAC
Lys Ile	Phe Cys	Asn Leu	His Arg	Tyr Ile	Ile Ala	Leu Asn
GAT	CAT	AAG	TTA	GCA	CAG	GCT
Asp	His	Lys	Leu	Ala	Gln	Ala
TTC AAA	ATT GAC	CTA GAG	TCA ACG	GAG TTG	GTT TGG	TGG GTG
Phe Lys	Ile Asp	Leu Glu	Ser Thr	Glu Leu	Val Trp	Trp Val
CTT	GCT	GTG	AGA	TAT	AAA	GTT
Leu	Ala	Val	Arg	Tyr	Lys	Val
AAA Lys	CTT	GAT ASP	TCA Ser	TGG	AAT Asn	GCA Ala

FIG. 7D

48	96	144	192	240	288	336
ATC Ile	TTC Phe	TTC Phe	GCT Ala	TGT Cys	GAC Asp	CAA Gln
TAC	TCT Ser	CAT His	ACC Thr	TCG Ser	ATG Met	TTC
CTC	TCT Ser	TTC	TCC	TTC	TTC	GCT Ala
GCT Ala	CTC	CGT Arg	CTC	GAC Asp	ACA Thr	TTA Leu
AAC Asn	AAC Asn	CTC	TCT	CTC	GAA Glu	AAC Asn
TCC Ser	GCT Ala	ACA Thr	ATC Ile	CTC	CGT Arg	GAC Asp
ATC Ile	ATC Ile	AAC Asn	TTG Leu	TTC	ACT Thr	GAA Glu
CTA	ACA Thr	TAC Tyr	CTC	GTC Val	TGC	ACA Thr
TAC Tyr	GCA Ala	CTC	GCA Ala	CGT Arg	ATC Ile	TTC Phe
CAT His	GCC Ala	CTC Leu	ACC Thr	CGC Arg	CTG	ATC Ile
\mathtt{TAT}	CTC	TCT Ser	GCC Ala	CCT	TCA Ser	GGC Gly
GTG Val	CTC Leu	CTC	CTC	CGT Arg	CCT	GTA Val
CTA Leu	CCT Pro	GAC Asp	ACA Thr	ACC Thr	GAC Asp	CGT Arg
AAA Lys	CTT Leu	AAC Asn	GCC Ala	ACC Thr	CCA	CAA Gln
CTT Leu	CTC	ATC Ile	TCC	TTC	AAA Lys	TCT Ser
AAG Lys	CTC Leu	ACC Thr	CTC Leu	$\mathtt{TAC}\\\mathtt{TY}_{T}$	TAC Tyr	AGA Arg

FIG. 8A

384	432	480	528	576	623
CCT	AGA	GAG	TGT	AAG	GG
	Arg	Glu	Cys	Lys	G1γ
TTC	GCG	CTT	AAT	AAT	ATG
Phe	Ala	Leu	Asn	Asn	Met
TAC	GAA Glu	GTT Val	GTG Val	GTG Val	666
ACT	GAA	GCG	GTG	ATT	GGC
Thr	Glu	Ala	Val	Ile	G1y
AAA	ATG	GAC	CTT	ATG	TTC
Lys	Met	Asp	Leu	Met	
CAG	TGT	ATT	ATC	GCT	AAT
Gln	Cys	Ile	Ile	Ala	Asn
GGT Gly	CCT Pro	GCT Ala	$_{\rm GLY}^{\rm GGA}$	TCT Ser	$ ext{TAT}$
CTA	AAT	GGA	ATT	CTT	AGC
Leu	Asn	Gly	Ile	Leu	Ser
GGT Gly	CCT	TTC Phe	GAT Asp	TCA Ser	TTG
TCC	CCT	ATG Met	AAA Lys	CCG	ÀTT Ile
AGA	GTT	GTT	CCT	ACA	AAC
Arg	Val	Val	Pro	Thr	Asn
GAA	CGT	ACA	AAA	CCA	GGC
Glu	Arg	Thr	Lys	Pro	G1y
CTC	CTT	GAA	GTG	AAT	AGA
Leu	Leu	Glu	Val	Asn	Arg
ATC Ile	CTT	GCA Ala	GGT Gly	ттт Phe	CIT
AAG	GCT	GAG	ACC	TTG	AAG
Lys	Ala	Glu	Thr		Lys
CAA	GAA	AAA	AAG	AGC	TAT
Gln	Glu	Lys	Lys	Ser	Tyr

FIG. 8B

48	96	144	192	240	288	336	384
CTC Leu	TTA Leu	TTC Phe	CGA Arg	TCG	ATT Ile	ATT Ile	TCT Ser
AAA Lys	TTG Leu	ATC Ile	TCT	CCT Pro	TTG Leu	TTG Leu	CAC His
TTT Phe	TCA Ser	TTC Phe	ATG Met	CCG	AGT Ser	ATC Ile	ATT Ile
TTT	GTC Val	GGA Gly	TTC Phe	CTC Leu	TCT Ser	AAG Lys	TCT Ser
CAC His	AAT Asn	ACC Thr	TTC Phe	TAC Tyr	AAC Asn	AGG Arg	GAT Asp
ACT Thr	ATG Met	TCC Ser	GTC Val	TGC	AAC Asn	CAG Gln	CCG
ATC Ile	TTC	AAT Asn	ATT Ile	TCT Ser	ATG Met	TTC	TTA Leu 9A
CTG	TTG Leu	\mathtt{TAC}	TCC Ser	TAC Tyr	TTC Phe	GAG Glu	tat Tyr FIG.
\mathtt{TAT}	GTT Val	$\mathtt{TAT}\\ \mathtt{TYY}$	GGA Gly	GAT Asp	AAA Lys	CTT Leu	ACT Thr
CAC His	GCT Ala	CTC Leu	GTC Val	CTA Leu	CAG Gln	TCT Ser	GAG Glu
TAC	ATG Met	CAG Gln	ATT Ile	CTT Leu	TAC TYr	ACT Thr	GAA Glu
GGC Gly	CTA Leu	CTT Leu	GCC Ala	TAC TYY	AGC	GAA Glu	$_{\rm G1y}^{\rm GGT}$
TTA Leu	CCT	CAT His	CTC Leu	ATC Ile	GTT Val	AGC Ser	CTC
AAG Lys	CTC Leu	AAC Asn	ACT	TCC	AAA Lys	TTC	$_{\rm G1y}^{\rm GGT}$
CTT Leu	TTC Phe	CTA Leu	ATC Ile	AGA Arg	CAA Gln	GAT Asp	TCT Ser
AAG Lys	ATG Met	AGC	GTC Val	CCT	AGT Ser	CAA Gln	CGC Arg

432	480	528	576	607
CAG	AAT	CCC	GGA	
Gln	Asn	Pro	Gly	
GAG	ATC	AAC	AGA	
Glu	Ile	Asn	Arg	
GCG	AAA	TTT	CTT	
Ala	Lys	Phe	Leu	
GAA	ACA	TTG	AAG	
Glu	Thr	Leu	Lys	
GAA	AAT	AGT	TAT	
Glu	Asn	Ser	Tyr	
CGT	GAG	TGT	AAG	ტ
Arg	Glu	Cys	Lys	
GCG	TTC	AAT	AAC	ATG
Ala	Phe	Asn	Asn	Met
GCA	CTT	GTG	GTT	GGC
Ala	Leu	Val	Val	Gly
GCT	AAT	GTT	ATT	GGC
Ala	Asn	Val	Ile	G1y
ATG	GAC	CTT	ATG	CTC
Met	Asp	Leu	Met	
ACT	CTC	GTT Val	GCC Ala	AAT Asn
CCT	GCA	GGT	TCC	TTT
Pro	Ala	Gly	Ser	Phe
CGT	GGT	ATT	TTA	AGC
Arg	Gly	Ile	Leu	
CCG	TTC	GAG	TCT	AAG
	Phe	Glu	Ser	Lys
CCT	ATC Ile	AGG Arg	CCT	ATT Ile
ATC	GTA	CCT	ACG	AAC
Ile	Val		Thr	Asn

48	96	144	192	240	288	336
CTC	TTA Leu	CTC	GTT Val	TGT Cys	GAT Asp	CAG Gln
AAG	CGA	AAT	ACC	TCT	ATG	TTT
Lys	Arg	Asn	Thr	Ser	Met	Phe
TTC	TCC Ser	$ extsf{TAC}$	TCC Ser	TAC Tyr	TTT Phe	GAG Glu
CTC	ATC	CAA	GGC	GAT	AAG	TTA
	Ile	Gln	Gly	ASP	Lys	Leu
CAT	GAG	CTC	TTT	GTT	CAG	TCT
His	Glu		Phe	Val	Gln	Ser
ACT Thr	ACA Thr	CAT His	ATC Ile	CTC	$\mathtt{TAT}\\ \mathtt{TY}_{\mathcal{I}}$	TCA Ser
ATT	GTC	CTT	GCT	$ ext{TAT}$	AAG	GAG
Ile	Val	Leu	Ala		Lys	Glu
CTC	TTA Leu	TGC	TTA	GTT Val	GTT Val	AAT Asn
TAC	GTT	ATT	GCT	TCT	CAG	TTC
Tyr	Val	Ile	Ala	Ser	Gln	
CAC	GCG	CAG	TCT	AGA	CTT	GAT
His	Ala	Gln	Ser	Arg	Leu	ASp
TAC Tyr	ATG Met	$ extstyle{T}$	CTC	CCC Pro	AGT Ser	GAA Glu
GGG	TTA	CTT	TTT	CGT	GAG	ATT
G1Y	Leu	Leu	Phe	Arg	Glu	Ile
CTG	CCA Pro	GAT ASP	ATC Ile	AGT Ser	CCG	TTG
AAA	GTT	GAC	TTC	ATG	CCT	AAG
Lys	Val	ASP		Met	Pro	Lys
CTT	TTG	ACA Thr	GCT Ala	ATC Ile	CTT	TCT
AAG	TGT	ACA	GTT	TAC	TAT	CAT
Lys	Cys	Thr	Val		Tyr	His

FIG. 10A

384	432	480	528	576	622
TCT GGT TTA GGA GAA GAG ACT TAT CTC CCT	CCT CCG AGG CCT ACG ATG ATG GCG GCT CGT	ATG TTT GGT GCT CTT GAT AAG CTT TTC GAG	AGG GAT ATT GGT GTG TTG GTT GTG AAT TGT	CCT TCG TTG TCA GCT ATG ATT GTT AAC AAG	GTT AAG AGT TTT AAC CTG GGG GGC ATT G
Ser Gly Leu Gly Glu Glu Thr Tyr Leu Pro	Pro Pro Arg Pro Thr Met Met Ala Ala Arg	Met Phe Gly Ala Leu Asp Lys Leu Phe Glu	Arg Asp ile Gly Val Leu Val Val Asn Cys	Pro Ser Leu Ser Ala Met Ile Val Asn Lys	Val Lys Ser Phe Asn Leu Gly Gly Ile
GAA CGT	TGT ATC	CAG GTA	AAC CCT	CCT ACA	GGG AAT
Glu Arg	Cys Ile	Gln Val	Asn Pro	Pro Thr	Gly Asn
ATT CTT (TTA CAT	GCT GAG (AAG ATT	TTT AAT	CTT AGA
Ile Leu (Leu His (Ala Glu (Lys Ile	Phe Asn	Leu Arg
AGG AAG	GAA GCT	GAG GAA	AAT ACC	AGC TTG	TAT AAG
Arg Lys	Glu Ala	Glu Glu	Asn Thr	Ser Leu	Tyr Lys

FIG. 10B

48	96	144	192	240	288	336
CTC	TTA	AAT	ACA	TCA	ATG	TTC
Leu	Leu	Asn	Thr	Ser	Met	
AAG	CGG	TTC	TTC	TAC	TTC	GAG
Lys	Arg	Phe	Phe	Tyr		Glu
TTT	TCC	CAG	$_{\rm GLY}^{\rm GGA}$	GAC	ACA	CTT
Phe	Ser	Gln		Asp	Thr	Leu
CTT	GTC	CTC	TTC	CTC	CAG	TCG
Leu	Val	Leu	Phe	Leu	Gln	Ser
CAC	AAT	CAG	ATT	CTC	TAC	TCG
His	Asn	Gln	Ile	Leu	TYF	Ser
TCT	ACG	CTC	TCC	TAC	AGC	GAG
Ser	Thr	Leu	Ser	TYr	Ser	Glu
ATT	TTC	TCT	GTC	GTT	GTT	GAC
Ile	Phe	Ser	Val	Val	Val	Asp
CTG	CTG	CTC Leu	ACC Thr	TCC	AAA Lys	TTC
TAC	GTT	GAT	ATT	AGA	CTC	GAT
Tyr	Val	Asp	Ile	Arg		Asp
CAC	GCG	CTC	TTC	CCT	AAT	GAA
His	Ala	Leu	Phe		Asn	Glu
TAT	ATG	TGT	TTC	CGA	TCG	ATT
Tyr	Met	Cys	Phe	Arg		Ile
TGG Trp	TTA Leu	CTC Leu	ATC Ile	TCC Ser	CCG	CIG
TTA	CCT	CAG	TTC	ATG	CCG	AAA
Leu	Pro	Gln	Phe	Met	Pro	Lys
AAG	GTT	AAC	GGA	TTC	CTC	TCT
Lys	Val	Asn	Gly	Phe	Leu	Ser
CTT	TTG	CTA	GTC	ATC	TAC	CAT
Leu		Leu	Val	Ile	Tyr	His
AAG Lys	TTG	AGC Ser	CTC	GTT Val	TGT Cys	AAT Asn

FIG. 11A

384	432	480	528	576	625
C CTC	rg GCG	CTC TTC	GTG AAC	GTG AAC	GGC ATG G
T Leu	.a Ala	Leu Phe	Val Asn	Val Asn	Gly Met>
ACT TAC	GCG GCG	AAT CI	GTG GI	ATT GI	GGT GG
Thr Tyr	Ala Ala	Asn Le	Val Ve	Ile Ve	
A GAG	ATG	GAC	r GTG	S ATG	r CTC
	Met	1 Asp	L Val	a Met	1 Leu
GGC GAA	CCG ACT	GCA CTC	GGT GTT	TCC GCC	TTT AAT
Gly Glu	Pro Thr	Ala Leu	Gly Val	Ser Ala	Phe Asn
CTC GC	CGT CC	GGT GC	ATT G(TTA T(AGC TY.
Leu G]	Arg Pı	Gly Al	Ile G]	Leu Se	Ser Ph
GGT	CCG	TTC	GAG	TCT	AAG
G1Y	Pro	Phe	Glu	Ser	Lys
A TCC	C CCG	A ATC	T AGG	G CCT	c GTG
g Ser	e Pro	1 Ile	o Arg	Ir Pro	in Val
AAG CGA	TGC ATC	CAG GTA	GAC CCT	CCG ACG	GGA AAC
Lys Arg	Cys Ile	Gln Val	Asp Pro	Pro Thr	Gly Asn
CTG	CAC	GAG	ATC	AAC	AGA
Leu	His	Glu	Ile	Asn	Arg
3 ATC	r ATC	A TCG	C AAA	G TTT	G CTT
s Ile	r Ile	u Ser	r Lys	u Phe	s Leu
CGG AAG	GAA TCT	GAG GAA	AAT ACC	AGC TTG	TAT AAG
Arg Lys	Glu Ser	Glu Glu	Asn Thr	Ser Leu	Tyr Lys
CAG CO	CCG G	CGT G	GAG A Glu A	TGC A Cys S	AAG T

FIG. 11B

26	104	152	200	248	296	344
GTTCATTGAT TTGTTTGAGA CTCTGTTGCA GAAATCTCCA C ATG GAT GAT GAA TCC	GTT AAT GGA GGA TCC GTA CAG ATC CGG ACC CGA AAG TAC GTC AAG CTG	GGT TAT CAC TAC CTG ATT TCT CAC CTT TTT AAG CTC TTG TTG GTT CCT	TTA ATG GCG GTT CTG TTC ACG AAT GTC TCC CGG TTA AGC CTA AAC CAG	CTC TGT CTC GAT CTC TCT CTC CAG CTC CAG TTC AAT CTC GTC GGA TTC	ATC TTC TTC ATT ACC GCC TCC ATT TTC GGA TTC ACA GTT ATC TTC ATG	TCC CGA CCT AGA TCC GTT TAC CTC CTC GAC TAC TCA TGT TAC CTC CCG
Met Asp Asp Glu Ser	Val Asn Gly Gly Ser Val Gln Ile Arg Thr Arg Lys Tyr Val Lys Leu	Gly Tyr His Tyr Leu Ile Ser His Leu Phe Lys Leu Leu Leu Val Pro	Leu Met Ala Val Leu Phe Thr Asn Val Ser Arg Leu Ser Leu Asn Gln	Leu Cys Leu Asp Leu Ser Leu Gln Leu Gln Phe Asn Leu Val Gly Phe	Ile Phe Phe Ile Thr Ala Ser Ile Phe Gly Phe Thr Val Ile Phe Met	Ser Arg Pro Arg Ser Val Tyr Leu Leu Asp Tyr Ser Cys Tyr Leu Pro

FIG. 12A

392	440	488	536	584	632	680
AAA	ATC	ATC	TCG	AAA	TTT	CTT
Lys	Ile	Ile	Ser	Lys	Phe	Leu
TCT	AAG	TCT	GAA	ACC	TTG	AAG
Ser	Lys	Ser	Glu	Thr	Leu	Lys
CAT	CGG	GAA	GAG	AAT	AGC	TAT
His	Arg	Glu	Glu	Asn	Ser	Tyr
AAT	CAG	CCG	CGT	GAG	TGC	AAG
Asn	Gln	Pro	Arg	Glu	Cys	Lys
ATG Met	TTC	CTC	GCG Ala	TTC Phe	AAC Asn	AAC
TTC	GAG	TAC	GCG	CTC	GTG	GTG
Phe	Glu	Tyr	Ala	Leu	Val	Val
ACA	CTT	ACT	GCG	AAT	GTG	ATT
Thr	Leu	Thr	Ala	Asn	Val	Ile
CAG	TCG	GAG	ATG	GAC	GTG	ATG
Gln	Ser	Glu		Asp	Val	Met
TAC Tyr	TCG Ser	GAA Glu	ACT	CIC	GTT Val	GCC Ala
AGC	GAG	GGC	CCG	GCA	GGT	TCC
	Glu	Gly	Pro	Ala	Gly	Ser
GTT	GAC	CTC	CGT	GGT	ATT	TTA
Val	Asp	Leu	Arg	Gly	Ile	Leu
AAA Lys	TTC Phe	GGT GLY	CCG	TTC	GAG Glu	TCT Ser
CTC	GAT	TCC	CCG	ATC	AGG	CCT
Leu	Asp	Ser	Pro	Ile	Arg	
AAT	GAA	CGA	ATC	GTA	CCT	ACG
Asn	Glu	Arg	Ile	Val		Thr
GCG Ala	ATT Ile	AAG Lys	TGC	CAG Gln	GAC	CCG
NCG	CTG Leu	CTG Leu	CAC His	GAG	ATC Ile	AAC Asn

FIG. 12E

720	0	776	824	872	920	896	1016
CC	as did as ser the Asn Leu Gly Gly Met Gly Cys Arg Ala	GTC ATC GCC GTT GAT CTC GCT AAT GAC ATT TTA CAG CTC CAT AGA 776 Val Ile Ala Val Asp Leu Ala Asn Asp Ile Leu Gln Leu His Arg	ACA TTA GCT CTT GTG GTT AGC ACA GAG AAC ATC ACT CAG AAT TGG 824 Thr Leu Ala Leu Val Val Ser Thr Glu Asn Ile Thr Gln Asn Trp	TIT GGT AAC AAA GCA ATG TTG ATT CCT AAT TGC TTG TTT AGG 872 Phe Gly Asn Asn Lys Ala Met Leu Ile Pro Asn Cys Leu Phe Arg	GGT GGA TCC GCG GTT CTG CTT TCG AAC AAG CCT CGT GAT CGA AAA 920 Gly Gly Ser Ala Val Leu Leu Ser Asn Lys Pro Arg Asp Arg Lys	TCC AAG TAT AAA CTT GTT CAC ACG GTA CGG ACT CAT AAA GGA TCT 968 Ser Lys Tyr Lys Leu Val His Thr Val Arg Thr His Lys Gly Ser	GAG AAA GCA TTC AAC TGT GTG TAC CAA GAA CAA GAC GAG GAC TTG 1016 Glu Lys Ala Phe Asn Cys Val Tyr Gln Glu Gln Asp Glu Asp Leu
ر د د	Arg Gly A	GGT G	AAC A Asn T	TAC T Tyr P	GTT G Val G	CGA T Arg S	GAT G Asp G

FIG. 12C

1064	1112	1160	1208	1256	1304	1352
GAA Glu	ATA Ile	TTC Phe	CTT Leu	GAT Asp	TCT	TGG
GGA	CCA	TTG	AAG	ATC	GCT	ATT
Gly	Pro		Lys	Ile	Ala	Ile
GCT	CTT	AGA	TTC	GTG	GAG	TCT
Ala	Leu	Arg		Val	Glu	Ser
ATA	GTT	AAG	GAT	GCC	GTG	AGC
Ile	Val	Lys	Asp	Ala	Val	
TCT Ser	CTG	GCA Ala	CCG	AGA Arg	CAT His	TCG Ser
ATG Met	CCT	GTT Val	ATA Ile	GGT Gly	AAA Lys	TCA
CTA	GGT	TTT	TAC	GGA	CCA	ACT
Leu	Gly	Phe		Gly	Pro	Thr
GAC Asp	TTG	ACT Thr	CCT Pro	GCA Ala	TTG	AAC Asn
AAA	ACT	GCG	AAG	CAC	CTA	GGA
Lys	Thr	Ala	Lys	His	Leu	G1y
TCT	ACC	ATT	AAG	ATT	AAG	TTT
Ser	Thr	Ile	Lys	Ile	Lys	Phe
TTG	ATC	TTC	AAG	TGT	TTA	AGA
Leu	Ile		Lys	Cys	Leu	Arg
TCT Ser	AAT Asn	CTG	AAG Lys	TTC	AGT Ser	CAT His
GTT	ACA	ATT	AAG	CAT	AAG	TTG
Val	Thr	Ile	Lys	His	Lys	
GGA	AAG	CAG	AAG	GAT	GAG	ACA
Gly	Lys	Gln	Lys	Asp	Glu	Thr
ACC	CTA	GAG	GCC	TTT	CTA	ATG
Thr	Leu	Glu	Ala	Phe	Leu	Met
AAA Lys	GCT Ala	AGC Ser	AGT	GCC Ala	GAA Glu	AGA

FIG. 12D

1400	1448	1496	1545	1605	1665	1704
TAT GAA TTA GCT TAC ACA GAA GCT AAA GGA AGA ATG AGA AAA GGG AAT 14 Tyr Glu Leu Ala Tyr Thr Glu Ala Lys Gly Arg Met Arg Lys Gly Asn	CGA GTT TGG CAG ATT GCT TTT GGA AGC GGC TTT AAG TGT AAC AGC GCG 14 Arg Val Trp Gln Ile Ala Phe Gly Ser Gly Phe Lys Cys Asn Ser Ala	GTT TGG GTG GCT CTT CGT GAT GTC GAG CCC TCG GTT AAC AAT CCT TGG 14 Val Trp Val Ala Leu Arg Asp Val Glu Pro Ser Val Asn Asn Pro Trp	GAA CAT TGC ATC CAT AGA TAT CCG GTT AAG ATC GAT CTC TGATTTCAGC 15 Glu His Cys Ile His Arg Tyr Pro Val Lys Ile Asp Leu	TTAACCGGTA AAATTGGTCT GTACATATAT TTACCACTGA GTAAAGACAT CAGTTAATGA 1605	TTTGTTGTTA CTCAATTGGG CTAAGTGTAT TATTATATGT GTTGTATATA ATAAAGGTAG 16	AACGTAAATT TACTAAGAAA AAAAAAAA AAAAAAAA
		0		_	_	•

FIG. 12E

47	95	143	191	239	287	335	
ACG TCT GTG AAC GTA AAA CTC CTT TAC CAT TAC GTC ATA ACC	TTC AAC CTC TGT TTC TTC CCA CTG ACG GGG ATC CTC GCC GGA	TCT CGT CTT ACC ACA AAC GAT CTC CAC CAC TTC TAT TCA TAT	CAC AAN CTT ATA ACC TTA ACC CTA CTC TTT GGC TTC ACC GTT	TCG GTT CTC TAC TTC GTA ANC CGA CCC AAA CCG GTT TAC CTC	TAC TCC TGC TAC CTT CCA CCA CAA CAT CTT AGC GCT GGT ATC	ACC ATG GAA ATC TTT TAT CAA ATA AGA AAA TCT GAT CCT TTA 3	
Thr Ser Val Asn Val Lys Leu Leu Tyr His Tyr Val Ile Thr	Phe Asn Leu Cys Phe Phe Pro Leu Thr Gly Ile Leu Ala Gly	Ser Arg Leu Thr Thr Asn Asp Leu His His Phe Tyr Ser Tyr	His Xxx Leu Ile Thr Leu Thr Leu Leu Phe Gly Phe Thr Val	Ser Val Leu Tyr Phe Val Xxx Arg Pro Lys Pro Val Tyr Leu	Tyr Ser Cys Tyr Leu Pro Pro Gln His Leu Ser Ala Gly Ile	Thr Met Glu Ile Phe Tyr Gln Ile Arg Lys Ser Asp Pro Leu	
ATG	C TTT	A GGC	c caa	r GGT	r gac	r Aag	
Met	n Phe	s Gly	u Gln	e Gly	1 Asp	r Lys	
Ą	AAC Asn	AAA Ys	TC	TT	irr 7a1	.cr	

FIG. 13A

383	431	479	527	575	623	671
AAG	GGA	GAG	AAC	ATG	AAG	AGT
Lys	Gly	Glu	Asn	Met	Lys	Ser
AGA	GAG	GAA	AAC	AGC	TCC	TGC
Arg	Glu	Glu	Asn	Ser	Ser	
TTG	CCC	CGT	GAG	AAC TCA	ACT	GGT
Leu	Pro	Arg	Glu	Asn Ser	Thr	Gly
TTC	GGC Gly	GCG Ala	TTC	AAC Asn	AAT Asn	ATG Met
GAT	TAC	TCG	CTA	GTG	GTT	GGA
Asp	Tyr	Ser	Leu	Val	Val	Gly
CTT	ACC	GCG	AAT	GTG	GTA	GGA
Leu	Thr	Ala	Asn	Val	Val	Gly
TCT	GAA	TTA	AAA	CTT	ATG	CTT
Ser	Glu	Leu	Lys	Leu	Met	Leu
TCT	GAT	AAT	CTA	ATA	GCG	AAT
Ser		Asn	Leu	Ile	Ala	Asn
TCG	GGC	AAG	GCG	GGT	TCC	TTT
Ser	Gly	Lys	Ala	Gly		Phe
GAT	CTA	AGG	GGT	ATT	TTA	AGC
Asp	Leu	Arg	Gly	Ile	Leu	Ser
GAT	GGT	CCG	AAC	GAG	TCG	AAA
Asp	G1y		Asn	Glu	Ser	Lys
TTA Leu	TCA	CCT Pro	ATC Ile	AAA Lys	CCT	ATC Ile
GCA	CGT	ATT	GTA	CCT	ACT	AAC
Ala	Arg	Ile	Val		Thr	Asn
GTG	GAG	GAG	CAA	AAC	CCG	AGC
Val	Glu	Glu	Gln	Asn	Pro	Ser
AAC GTG	CAA	TTT	GAG	GTT	AAT	CGA
Asn Val	Gln	Phe	Glu	Val	Asn	Arg
CGA	ATT	CTG	ACG	AAA	TTT	CIC
Arg	Ile	Leu	Thr	Lys	Phe	

FIG. 13B

719	767	815	863	911	949	1007
CAT	AAC	TTC	CGA	GGA	AGC	GGG
His	Asn		Arg	Gly	Ser	Gly
GTT	CAA	TTG	GAT	ACC	GAT	GCC
Val	Gln		Asp	Thr	Asp	Ala
CAT	ACT	TGC	$^{\rm GGG}_{\rm G1Y}$	CAT	GAT	GTT
His	Thr	Cys		His	Asp	Val
TTG	ATC Ile	AAT Asn	CCG	ACG Thr	GAA Glu	GTT Val
TTG	AAC Asn	TCG Ser	AAG Lys	CGA	GAA Glu	ACC Thr
GAC	GAG	GTT	AAC	GTT	CAA	ATA
Asp	Glu	Val	Asn	Val	Gln	Ile
AAA Lys	ACA Thr	ATG Met	TCC	ACG Thr	CGG	GAC Asp
GCT	AGC	ATG	CTC	CAC	GTG	AAA
Ala	Ser	Met	Leu		Val	Lys
CTA	GTG	TCC	CTG	GCT	TGT	TCA
Leu	Val	Ser	Leu	Ala	Cys	Ser
GAT Asp	GTG Val	AGA	ATT Ile	CTA Leu	GGA Gly	TTG
ATT	CTT	AAC	GCG	AAG	TTT	AGT
Ile	Leu	Asn	Ala	Lys	Phe	Ser
GCC	GCT	GAT	GCA	\mathtt{TAC}	TCT	GTT
Ala	Ala	Asp	Ala		Ser	Val
ATC Ile	\mathtt{TAT}	$_{\rm GLY}^{\rm GGT}$	$\tt GGG$	AAG Lys	AAG Lys	GGA Gly
GTT	ACA	ACC	$_{\rm GGT}$	TCC	GAC	ACC
Val	Thr	Thr		Ser	Asp	Thr
GGT Gly	AAC Asn	${\tt TAT} \\ {\tt TYT}$	GTC Val	CGG Arg	GAC	AAA Lys
GCT	AAA	ATT	CGT	AGA	GCT	GGT
	Lys	Ile	Arg	Arg	Ala	Gly

FIG. 130

1055	1103	1151	1199	1247	1295	1343
CCT	CTA	GCA	GTG	AGA	TAT	AAA
Pro		Ala	Val	Arg	TY <i>r</i>	Lys
CTT	AAA	CTT	GAT	TCA	TGG	AAT
Leu	Lys		Asp	Ser	Trp	Asn
GTT	AAG	AAA	ATA	GCA	ATT	GGT
Val	Lys	Lys	Ile	Ala	Ile	Gly
TTG	GCC	TTC	GTG	GAG	TCA	AAA
Leu	Ala	Phe	Val	Glu	Ser	Lys
CCG	GTA	GAT	GCC	GTG	AGT	AAG
	Val	Asp	Ala	Val	Ser	Lys
GGT Gly	TTC Phe	CCG	AGA Arg	GAT Asp	TCT	ATG Met
TTG	ACA	GTG	GGT	ATA	TCG	AGG
	Thr	Val	Gly	Ile	Ser	Arg
ACA Thr	GTT Val	TAC	GGA Gly	CCG	ACA Thr	GGA Gly
ACA Thr	GTC Val	$ ext{TAT}$	GCG Ala	TCG	AAT Asn	AAA Lys
ATA	TTT	CAC	CAT	CTA	GGG	CCA
Ile	Phe	His	His	Leu	G1Y	
AAC	CTT	AAA	ATT	GGG	TTT	GAG
Asn	Leu	Lys	Ile	G1Y	Phe	Glu
AAA	ATC	ATC	TGT	TTA	AGA	ATA
Lys	Ile	Ile		Leu	Arg	Ile
CAG	AAA	AAG	TTC	AAC	CAT	TAC
Gln	Lys	Lys	Phe	Asn	His	TYr
GTT	GAA	GAT	CAT	AAG	ACA TTA	TTA GCA
Val	Glu	ASP	His	Lys	Thr Leu	Leu Ala
ACG	AGC	TTA AAA	GAT	GAG	ACA	TTA
Thr	Ser	Leu Lys	ASP	Glu	Thr	Leu
ATA Ile	CTG	TTA Leu	GTA Val	TTA Leu	TCA	GAA

FIG. 13D

1391	1439	1487	1537	1597	1657	1664
GCT TGC CAA ATA GCT GGT GGG TCA GGT TTT AAG TGT AAT AGT GCG GTT Ala Cys Gln Ile Ala Gly Gly Ser Gly Phe Lys Cys Asn Ser Ala Val	TGG GTC GCT TTA CGC AAT GTC GAG GCT TCA GCT AAT AGT CCT TGG GAA 1 Trp Val Ala Leu Arg Asn Val Glu Ala Ser Ala Asn Ser Pro Trp Glu	CAT TGC ATT CAC AAA TAT CCG GTT CAA ATG TAT TCT GGT TCA TCA AAG His Cys Ile His Lys Tyr Pro Val Gln Met Tyr Ser Gly Ser Ser Lys	TCA GAG ACT CCT GTC CAA AAC GGT CGG TCC TAATTTATGT ATCTCAAATG Ser Glu Thr Pro Val Gln Asn Gly Arg Ser	ATGTTGTCCA CTTTCTCTTT TTTTTTTCT TTTTTTAGTT ATAATTTAAT GGTTACGATG 1	TTTTGTCTAG GTCGTTATAA ATAAAGAATA CATGGGTGTT ACTAGTATAA AAAAAAAA 1	AAAAAA 1

FIG. 13E

51	66	147	195	243	291	339
CCCCAACA ATG ACC CAT AAC CAA AAC CAA CCT CAC CGG GCA 51 Met Thr His Asn Gln Asn Gln Pro His Arg Ala	GTT ACA AAC TCC GAT CAA AAC CAA AAC CAA AAC CAA Val Thr Asn Ser Asp Gln Asn Gln Asn Gln	AAT TTT CTC TTA TCT GTT CGG CTC AAA TAT GTA AAA Asn Phe Leu Leu Ser Val Arg Leu Lys Tyr Val Lys	TAC CTA ATC TCC AAC GGT CTC TAC ATC CTC CTC CTC Tyr Leu Ile Ser Asn Gly Leu Tyr Ile Leu Leu Leu	GGC ACA ATC GTA AAA CTC TCT TCC TTC ACA CTC AAC Gly Thr Ile Val Lys Leu Ser Ser Phe Thr Leu Asn	CTC TAC AAC CAC CTC CGT TTT CAT TTC CTC TCC GCC Leu Tyr Asn His Leu Arg Phe His Phe Leu Ser Ala	GGA CTC TTA ATC TCT CTC TCC ACC GCC TAC TTC ACC Gly Leu Leu Ile Ser Leu Ser Thr Ala Tyr Phe Thr
ככככי	CAC	CCA	CAT	. GGC	· CTC	ACC Thr
	GTT Val	CTC Leu	TAC Tyr	CTC	TCT	GCT Ala
CTTTCTTCTT	CCG Pro	AAT Asn	. GGG 1 G1y	CTC ren	CTC	CTC
CTT	GTT Val	AAC Asn	CTT	CCT	GAA Glu	ACA Thr

FIG. 14A

GAG ACT GTT ATG TTC Glu Thr Val Met Phe GTG AAA CCT AAA GAT Val Lys Pro Lys Asp AAT CCG ACG CCG TCA ASN Pro Thr Pro Ser
ACT GTT Thr Val AAA CCT Lys Pro CCG ACG Pro Thr
ACT GTT ATG TTC GGA GCT ATA GAC Thr Val Met Phe Gly Ala Ile Asp AAA CCT AAA GAT ATC GGA ATC CTT Lys Pro Lys Asp Ile Gly Ile Leu CCG ACG CCG TCA CTT TCC GCC ATG Pro Thr Pro Ser Leu Ser Ala Met
ACT GTT ATG TTC GGA GCT Thr Val Met Phe Gly Ala AAA CCT AAA GAT ATC GGA Lys Pro Lys Asp Ile Gly CCG ACG CCG TCA CTT TCC Pro Thr Pro Ser Leu Ser
ACT GTT ATG TTC GGA Thr Val Met Phe Gly AAA CCT AAA GAT ATC Lys Pro Lys Asp Ile CCG ACG CCG TCA CTT Pro Thr Pro Ser Leu
ACT GTT ATG Thr Val Met AAA CCT AAA Lys Pro Lys CCG ACG CCG Pro Thr Pro
ACT GTT Thr Val AAA CCT Lys Pro CCG ACG Pro Thr
ACT Thr AAA Lys CCG Pro

771	819	867	915	963	1011	1059
GCT	CCA	TGG	CGT	ACC	GCC	GAA
Ala	Pro	Trp	Arg	Thr	Ala	1 Glu
AGT	CAA	AAC	TTC	CGC	GGA	AAC
Ser	Gln	Asn		Arg	Gly	Asn
TGT	GTC	TTA	ATC	GAT	AAA	AAC
Cys	Val	Leu	Ile	Asp	Lys	Asn
$_{\rm G1y}^{\rm GGT}$	CAG	ACC	TGC	TCC	CAC	GAC
	Gln	Thr	Cys	Ser	His	ASP
ATG	CTT	ATA	AAC	TCC	ACC	GAA
Met	Leu	Ile	Asn	Ser	Thr	Glu
GGA	CTT	AAC	TCT	CGT	CGT	CGA
Gly	Leu	Asn	Ser	Arg	Arg	Arg
GGT	CAG	GAG	CIC	AAC	GTC	CAA
Gly	Gln	Glu		Asn	Val	Gln
CTC	AAA Lys	ACA Thr	CTT Leu	TCA Ser	CCC	TAC
AAT	GCT	AGC	ATG	CTC	CAC	GTT
Asn	Ala	Ser	Met		His	Val
$ extsf{TAT}$	CTC	GTG Val	TCA Ser	CTT Leu	ATC Ile	TGC
AGC	GAT	GTG	CGA	GTA	CTC	GGC
Ser	Asp	Val	Arg	Val		Gly
TTG	ATT	CTA	GAC	GCC	CAG	TTT
Leu	Ile	Leu	Asp	Ala	Gln	Phe
ATT	TCC	GCA	AAC	GCC	TAT	GCA
Ile		Ala	Asn	Ala	Tyr	Ala
AAC	ATC	$ ext{TAC}$	GGC	GGA	AAA	AAC
Asn	Ile		G1y	Gly	Lys	Asn
GGA	CTT	TCA	TTA	GGA	TCA	GAC
Gly	Leu	Ser	Leu	G1y		Asp
AGA Arg	GGA Gly	AAC Asn	TAC	ATG	CGT Arg	AAC Asn

FIG. 14C

1107	1155	1203	1251	1299	1347	1395
GCA	CTA	GCT	TTC	GTG	GAA	TCA
Ala	Leu	Ala	Phe	Val	Glu	Ser
ATG	CCA	GTG	GAT	GCA	ATG	AGC
Met	Pro	Val	Asp	Ala	Met	Ser
CTA	GGA Gly	CTC	CCC Pro	AGA Arg	CAT His	AGT Ser
AAC Asn	CTC	ACA Thr	ATA Ile	$_{\rm GLY}^{\rm GGT}$	TGG Trp	TCG Ser
AAA	ACA	CCA	$ extsf{TAC}$	GGA	GAG	ACT
Lys	Thr	Pro		G1y	Glu	Thr
TCT	ACA	TTC	CCT	GCG	TCA	AAT
Ser	Thr	Phe		Ala	Ser	Asn
CTC	ATA	TTT	AAG	CAT	TTA	GGT
Leu	Ile	Phe	Lys	His	Leu	Gly
TCA	AAC Asn	CTG	ATA Ile	ATC Ile	GAT Asp	TTT Phe
GTC	ACA	ATT	AAA	TGC	TTG	CGG
Val	Thr	Ile	Lys		Leu	Arg
GGA	AAG	CAG	AAG	TTC	AAT	AAC
G1y	Lys	Gln	Lys		Asn	Asn
ATC	CTC	GAA	GTC	CAT	AAG	TTA
Ile		Glu	Val	His	Lys	Leu
AAA	GCT	TCC	AAA	GAG	GAG	ACT
Lys	Ala	Ser	Lys	Glu	Glu	Thr
GCC	GAA	ATG	TTC	TTC	ATA	ATG
Ala	Glu	Met		Phe	Ile	Met
ACC	GGA	CCA	ATC	GCT	GAG	AGG
Thr	Gly	Pro	Ile		Glu	Arg
GAA	GCC	TTA	AAA	CTA	GAT	TCG
Glu	Ala	Leu	Lys		Asp	Ser
GAA	ATA	GTC	CGA	AAG	CTT	CCA
Glu	Ile	Val	Arg	Lys	Leu	

FIG. 14D

1443	1491	1539	1587	1641	A 1701	1732
SCT AAA GGG AGG ATT AAG AGA Ala Lys Gly Arg Ile Lys Arg	GGA TCG GGA TTT AAG TGT AAT Gly Ser Gly Phe Lys Cys Asn	ATT GAT CCT ATT GAT GAG AAG Ile ASP Pro Ile ASP Glu Lys	SAG TTT CCA GTT TCT GTT CCT 3lu Phe Pro Val Ser Val Pro	TAGTGTTTTT TTTTGGGTC CAACTAGGGA	CGTACTTTAA GTGATTTAGT CTAAAAATAA	
GAA GCT Glu Ala	TTT Phe	ACC Thr	CAT GAG His Glu			4
TAT AGT Tyr Ser	ATT GCG Ile Ala	TTG AGA Leu Arg	GAG ATT Glu Ile	TCT AAC Ser Asn	TTCTTACGTA	AAAAAA
CTT GCG I Leu Ala I	TGC CAA A Cys Gln I	AAA GCT T Lys Ala I	AGT GAT G Ser Asp G	GTT ACT 1 Val Thr S	TATGGTTTTG TTC	TAAAAAAAA AAAAAAAAA
GAA (Glu I	ACT Thr	TGG / Trp 1	TGG Trp	CCA Pro	ratgg.	IAAAA
G TYY	: AGG	GTT a Val	CCA Pro	ATC ACT Ile Thr		
r TGG 1 Trp	A GAT Y Asp	r GCG r Ala	3 AAT s Asn	G ATC 3 Ile	TAATATTTGT	ATTGGTTTCA
CTT Leu	GGA Gly	AGT Ser	AAG Lys	AGG Arg	TA	AT

FIG. 14E

48	96	144	192	240	2 8 8	336
TTG Leu	TTG Leu	TTA Leu	CTG	TGT	GAG Glu	CAA Gln
TAT Tyr	ACG Thr	AAT Asn	ACT	TCT Ser	\mathtt{TAT}	TTC
ATG	TCC	TTC	GGG	TTC	TTC	ACT
Met	Ser	Phe	Gly	Phe	Phe	Thr
GCC	CTC	AAG	TTA	GAT	ATT	TTA
Ala	Leu	Lys	Leu	Asp	Ile	Leu
AAC	CAT	CTT	TTT	GTG	GAG	AAT
Asn	His	Leu	Phe	Val	Glu	Asn
TCC	GCT	CAG	GTG	TTG	AGA	GAT
Ser	Ala	Gln	Val	Leu	Arg	Asp
ATC	TTT	GAA	ATG	TAC	ACG	GAT
Ile	Phe	Glu	Met		Thr	Asp
TTG	GCC	TGG	CTT	ATT	TGC	ACC
Leu	Ala	Trp	Leu	Ile		Thr
TAC	GTA	CTT	AGC	AAG	ATA	TTT
Tyr	Val	Leu	Ser	Lys	Ile	Phe
CAT	GCA	CAT	TCG	ACG	CGT	AAT
His	Ala	His	Ser	Thr	Arg	Asn
TAC Tyr	CTA Leu	GTT Val	TGC Cys	CCG	GAG Glu	GGG
GTA Val	CTT	CTG	CTC	CGA Arg	AAA Lys	ACT Thr
CTA	CCG	GAT	ACT	AGC	GAA	CTA
Leu	Pro	Asp	Thr	Ser	Glu	
AAA	GTG	CAA	GTA	ATG	CCG	AAA
Lys	Val	Gln	Val	Met	Pro	Lys
CTT Leu	ATG Met	ATT Ile	TCA Ser	TTC	AAG Lys	TCG
AAG	TTA	ACG	CTG	TAT	TAC	AGA
Lys	Leu	Thr	Leu	TYY		Arg

FIG. 15/



384	432	480	528	576	622
CCT Pro	AGA Arg	GAG Glu	TGC	CGG Arg	
TTA C Leu E	GCT A	TTG C	AAT T Asn C	AAT C Asn A	ATG G Met
TAC TYT]	GAG (TTG :	GTG 1	GTT 1	GGG 7
	Glu)	Leu]	Val 1	Val 1	Gly 1
ACG	GCG	GAA	GTG	GTG (GGC (
Thr	Ala	Glu	Val	Val	
AAC Asn	ATG Met	GAT Asp	CTT	ATG Met	CTT
CAG	TGT	ATC	ATT	GCA	AAC
Gln	Cys	Ile	Ile	Ala	Asn
$_{\rm G1Y}^{\rm GGT}$	CCG Pro	GCG	$_{\rm GLY}$	TCC Ser	$\mathtt{TAT}\\ \mathtt{TYr}$
TTA	AAT	$_{\rm GLy}^{\rm GGT}$	ATC	CTG	AGT
Leu	Asn		Ile	Leu	Ser
GGA Gly	CCC	TTC	GAT Asp	TCT Ser	ATA Ile
TCT Ser	CCG	ATG Met	AAG Lys	CCG	ATC Ile
AGA	GTT	GTT	CCT	ACG	AAT
Arg	Val	Val	Pro	Thr	Asn
GAA	CGG	ATG	AAA	CCG	GGG
Glu	Arg	Met	Lys	Pro	G1y
ATC	CTA	GAG	GTT	AAT	AGA
Ile	Leu	Glu	Val	Asn	Arg
ATT Ile	GTT Val	GCT Ala	GGG	TTC	CTT Leu
AAA	GCC	GAG	ACC	TTG	AAG
Lys	Ala	Glu	Thr	Leu	Lys
AAG	GAG	AAG	AAA	AGC	TAC
Lys	Glu	Lys	Lys		Tyr

FIG. 151